



Certificate of Analysis

Jan 20, 2020 | Botanical-cbd LLC

15426 SW 31st Ln Miami, Florida 33185 Florida
Miami, Dade County 33186



SAMPLE:DA00116015-005
Harvest/Lot ID: H29U04
Seed to Sale #N/A
Batch Date :N/A
Batch#: E31V01
Sample Size Received: 30
Ordered : 01/15/20
Sampled : 01/15/20
Completed: 01/20/20 Expires: 01/20/21
Sampling Method: SOP Client Method

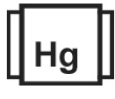
PASSED

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PRODUCT IMAGE SAFETY RESULTS



Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals
Solvents
PASSED



Filtration
PASSED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Terpenes
NOT TESTED

MISC.

CANNABINOID RESULTS



Total THC
0.065%
THC/Container :19.80 mg



Total CBD
0.350%
CBD/Container :106.31 mg



Total Cannabinoids
0.445%



Filtration PASSED

Analyte	Weight	Extraction date	LOD	Extracted By
584	1g	01/17/20	584	584
Analysis Method -SOP.T.40.013		Batch Date : 01/17/20		
Analytical Batch -DA009531FIL				
Instrument Used :				

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is use for inspection.

CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	THCA	D9-THC
ND	ND	ND	0.010 %	ND	ND	0.017 %	ND	0.350 %	0.019 %	0.049 %
ND	ND	ND	0.100 mg/g	ND	ND	0.170 mg/g	ND	3.500 mg/g	0.190 mg/g	0.490 mg/g
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0001	0.001	0.0001

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
450	3.0780g	01/17/20	965
Analysis Method -SOP.T.40.020, SOP.T.30.050		Batch Date : 01/17/20	
Analytical Batch -DA009523POT		Instrument Used : DA-LC-003	

Reagent	Dilution	Consums. ID
123019.R09 011420.R09 011420.R08	40	76124-662 SFN-BX-1025 849C4-849AK 840C6-840H

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 mg/L).

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Jorge Segredo
Lab Director
State License # n/a
ISO Accreditation # 97164



Signature

01/20/2020

Signed On



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Pesticides

PASSED

Pesticides	LOD	Action Level	Units	Result	Pesticides	LOD	Action Level	Units	Result
CHLORDANE	0.005	0.1	ppm	ND	METHOMYL	0.01	0.1	ppm	ND
CAPTAN	0.05	3	ppm	ND	KRESOXIM-METHYL	0.01	1	ppm	ND
BOSCALID	0.01	3	PPM	ND	DIAZANON	0.01	0.2	ppm	ND
DIMETHOATE	0.01	0.1	ppm	ND	CYPERMETHRIN	0.01	1	ppm	ND
AZOXYSTROBIN	0.01	3	ppm	ND	MEVINPHOS	0.01	0.1	ppm	ND
ABAMECTIN B1A	0.02	0.3	ppm	ND	MYCLOBUTANIL	0.01	3	ppm	0.018
CIS-PERMETHRIN	0.05	1	ppm	ND	NALED	0.01	0.5	ppm	ND
SPINETORAM	0.01	3	PPM	ND	OXAMYL	0.01	0.5	ppm	ND
ACEPHATE	0.001	3	ppm	ND	PACLOBUTRAZOL	0.01	0.1	ppm	ND
FENOXYCARB	0.01	0.1	ppm	ND	TRANS-PERMETHRIN	0.05	1	ppm	ND
DIMETHOMORPH	0.005	3	ppm	ND	PHOSMET	0.01	0.2	ppm	ND
BIFENAZATE	0.01	3	ppm	ND	PIPERONYL BUTOXIDE	0.01	3	ppm	ND
ETHOPROPHOS	0.01	0.1	ppm	ND	PRALLETHRIN	0.05	0.4	ppm	ND
ACEQUINOCYL	0.01	2	ppm	ND	PROPICONAZOLE	0.01	1	ppm	ND
ACETAMIPRID	0.01	3	ppm	ND	PROPOXUR	0.01	0.1	ppm	ND
ETOFENPROX	0.01	0.1	ppm	ND	PYRETHRIN I	0.01	1	ppm	ND
BIFENTHRIN	0.01	0.5	ppm	ND	PYRIDABEN	0.01	3	ppm	ND
ALDICARB	0.02	0.1	ppm	ND	SPINOSAD (SPINOSYN A)	0.01	3	ppm	ND
ETOXAZOLE	0.01	1.5	ppm	ND	SPINOSAD (SPINOSYN D)	0.01	3	ppm	ND
FENPYROXIMATE	0.01	2	ppm	ND	SPIROMESIFEN	0.01	3	ppm	ND
FIPRONIL	0.02	0.1	ppm	ND	SPIROTETRAMAT	0.02	3	ppm	ND
FENHEXAMID	0.01	3	ppm	ND	SPIROXAMINE	0.01	0.1	ppm	ND
CARBARYL	0.01	0.5	ppm	ND	TEBUCONAZOLE	0.01	1	ppm	ND
CARBOFURAN	0.01	0.1	ppm	ND	THIACLOPRID	0.01	0.1	ppm	ND
FLONICAMID	0.01	2	ppm	ND	THIAMETHOXAM	0.01	1	ppm	ND
FLUDIOXONIL	0.01	3	ppm	ND	TRIFLOXYSTROBIN	0.01	3	ppm	ND
CHLORFENAPYR	0.01	0.1	ppm	ND					
CHLORANTRANILIPROLE	0.01	3	ppm	ND					
HEXYTHIAZOX	0.01	2	ppm	ND					
CHLORPYRIFOS	0.01	0.1	ppm	ND					
IMAZALIL	0.01	0.1	ppm	ND					
MALATHION	0.01	2	ppm	ND					
CLOFENTEZINE	0.01	0.5	ppm	ND					
DAMINOZIDE	0.02	0.1	ppm	ND					
IMIDACLOPRID	0.01	3	ppm	ND					
METALAXYL	0.01	3	ppm	ND					
DICHLORVOS	0.05	0.1	ppm	ND					
METHIOCARB	0.02	0.1	ppm	ND					
COUMAPHOS	0.005	0.1	ppm	ND					



Pesticides

PASSED

Analyzed by 585	Weight 1.0354g	Extraction date 01/17/20	Extracted By 1082
Analysis Method - SOP.T.30.065, SOP.T.40.065			
Analytical Batch - DA009517PES			
Instrument Used : LCMS E-SHI-039			
Batch Date : 01/17/20			
Reagent <small>101115.04 011020.009 011020.010</small>	Dilution	Consums. ID 180711	
SOP.T.30.065, SOP.T.40.065			

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Residual Solvents PASSED



Residual Solvents PASSED

SOLVENT	LOD	ACTION LEVEL (PPM)	PASS/FAIL	RESULT
PROPANE	120	2100	PASS	ND
BUTANES (N-BUTANE)	96	2000	PASS	ND
ETHYLENE OXIDE	0.6	5	PASS	ND
METHANOL	22.5	250	PASS	ND
ETHANOL	90	5000	PASS	ND
PENTANES (N-PENTANE)	67.5	750	PASS	ND
ETHYL ETHER	45	500	PASS	ND
ACETONE	67.5	750	PASS	ND
2-PROPANOL	45	500	PASS	ND
ACETONITRILE	5.4	60	PASS	ND
DICHLOROMETHANE	11.25	125	PASS	ND
N-HEXANE	4.5	250	PASS	ND
ETHYL ACETATE	36	400	PASS	ND
BENZENE	0.09	1	PASS	ND
HEPTANE	45	500	PASS	ND
TOLUENE	13.5	150	PASS	ND
CHLOROFORM	0.18	2	PASS	ND
1,2-DICHLOROETHANE	0.18	2	PASS	ND
TRICHLOROETHYLENE	2.25	25	PASS	ND
1,1-DICHLOROETHENE	1	8	PASS	ND
TOTAL XYLENES	13.5	150	PASS	ND

Analyzed by 850 **Weight** 0.0271g **Extraction date** 01/17/20 **Extracted By** 850

Analysis Method -SOP.T.40.032
Analytical Batch -DA009538SOL
Instrument Used : Headspace GCMS
Batch Date : 01/17/20

Reagent	Dilution	Consums. ID
	1	00276446 160861-1 24152436

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 34 Residual solvents. (Method: SOP.T.30.042 Residual Solvents Analysis via GC-MS).

Signature

01/20/2020

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Sample : DA00116015-005
Harvest/LOT ID: H29U04

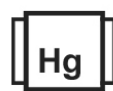
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Mycotoxins **PASSED**



Heavy Metals **PASSED**

Analyte	LOD	Result	Action Level (PPM)
AFLATOXIN G2	0.002	ND	
AFLATOXIN G1	0.002	ND	
AFLATOXIN B2	0.002	ND	
AFLATOXIN B1	0.002	ND	
OCHRATOXIN A+	0.002	ND	0.02
TOTAL AFLATOXINS	0.02	ND	0.02

Analysis Method -SOP.T.30.065, SOP.T.40.065
Analytical Batch -DA009518
Instrument Used : LCMS E-SHI-039
Batch Date : 01/17/20

Analyzed by 585 **Weight** 1g **Extraction date** NA **Extracted By** NA

Reagent	Dilution	Consums. ID
011620.R14	50	
011520.R04		
011520.R03		
011520.R01		
011620.R01		
010220.R04		

Metal	LOD	Result	Action Level (PPM)
ARSENIC	0.01	ND	1.5
CADMIUM	0.01	ND	0.5
LEAD	0.01	ND	0.5
MERCURY	0.01	ND	3

Analyzed by 53 **Weight** 0.2584g **Extraction date** 01/17/20 **Extracted By** 457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA009509HEA
Instrument Used : ICPMS-2030
Batch Date : 01/17/20

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS.



Microbials **PASSED**

Analyte	LOD	Result
ASPERGILLUS_FLAVUS	10000	not present in 1 gram.
ASPERGILLUS_FUMIGATUS	10000	not present in 1 gram.
ASPERGILLUS_NIGER	10000	not present in 1 gram.
ASPERGILLUS_TERREUS	10000	not present in 1 gram.
ESCHERICHIA_COLI_SHIGELLA_SPP	10000	not present in 1 gram.
SALMONELLA_SPECIFIC_GENE	10000	not present in 1 gram.

Analysis Method -SOP.T.40.043
Analytical Batch -DA009513MIC
Instrument Used : PathogenDX PCR_Array Scanner
Batch Date : 01/17/20

Analyzed by 513 **Weight** 1.0257g **Extraction date** 01/17/20 **Extracted By** 513

